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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First named inventor: Ashley Davis

Application no.: 09/725,030 Amendments #5

Filed: 11/29/00

Title: Anti-S-phase tubulin ligands

Examiner: Lukton, D

Art Group: 1653

AMENDMENT AND RESPONSE UNDER 37 C.F.R. # 1.111(a)

Mailed to: Box Amendment, Commissioner for Patents, Mail Stop AF, Arlington VA 22202.

August 18th 2003

Dr. David Lukton
Commissioner of Patents
USPTO
Patent Applications
Washington DC 20231
Tel: 703-308-3213

Ref: 09/725,030

Dear Dr. David Lukton:

In response to the Office communication dated 6-20-2003 with respect we submit the following

Amended Claims

Claim 1 One novel compound: Iodine acetamido benzoyl ethyl acetate.

Claim 2. Halogenated acetamido benzoyl ethyl acetate derivatives that covalently bind to tubulin.

Claim 3. [Delete and add modifications Claims 8-21] Tubulin ligands with a G1/S-phase arrest mechanism of anti-cancer activity.

Claim 4. [Modified see below New Claim 4 and NEW Claim 22] Tubulin ligands that cause a rapid and biphasic phosphorylation of bcl-2.

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AND